



Harsco Track Technologies

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SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

DATE: 2-28-2002 **BULLETIN NO:** 02-005

TITLE: 2004976 CLAMP CYLINDER ROD SEAL AND WIPER SERVICE GROUP

RATING:

<input type="checkbox"/>	DIRECTIVE (Action Is Required)	<input type="checkbox"/>	ALERT (Potential Problem)
<input type="checkbox"/>	INFORMATION (Action Is Optional)	<input checked="" type="checkbox"/>	PRODUCT IMPROVEMENT (Enhance Product)

PRODUCT SERIES / MODEL: 6700S Tamper

SERIAL NO: All Models Serial # 152700 thru 152990

SUMMARY: A new one-piece cylinder head incorporating a new design wiper and seal has been tested extensively and implemented at the Ludington, MI. facility for Clamp Cylinder part # 431499-1. The new rod seal and wiper are offered in a new one-piece Cylinder Head Assembly part # 2004976. This assembly replaces the original two-piece cylinder head.

OPERATIONAL IMPACT: The one-piece cylinder head assembly will improve machine reliability and minimize leakage.

ACTION: The installation of this Service Group requires:

- Removing the clamp cylinder from the machine.
- Dis-assembling the cylinder to remove the existing two-piece cylinder head, seals, o-rings, wiper, etc.
- Re-assembling the cylinder with the new one-piece cylinder head, seals, o-rings, wiper, etc.
- Re-installing the clamp cylinder on the machine.

CONTACT: If you have any questions or if we can be of any service, please contact Bill Perry or Doug Budreau at the Ludington, MI. facility, (231) 843-3431.

SAFETY INFORMATION

- **FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURE TO REMOVE ALL ENERGY SOURCES FROM MACHINE. FAILURE TO COMPLY COULD RESULT IN SEVERE BODILY INJURY.**

SERVICE GROUP INSTALLATION - See Figure 1, Figure 2 and Figure 3

1. Locate the clamp cylinder on the machine.
2. Disconnect the hydraulic lines from the clamp cylinder.

Note: Be sure to note which hydraulic lines are connected to the cylinder ports for proper re-assembly.

3. Remove the clamp cylinder from the machine.
4. Thoroughly clean the clamp cylinder. Then dis-assemble the clamp cylinder to remove the existing two-piece head, seals, o-rings, wiper, etc. as shown in Figure 1.
5. Re-assemble the clamp cylinder with the new one-piece head, seals, o-rings, wiper, etc. as shown in Figure 2 and Figure 3.

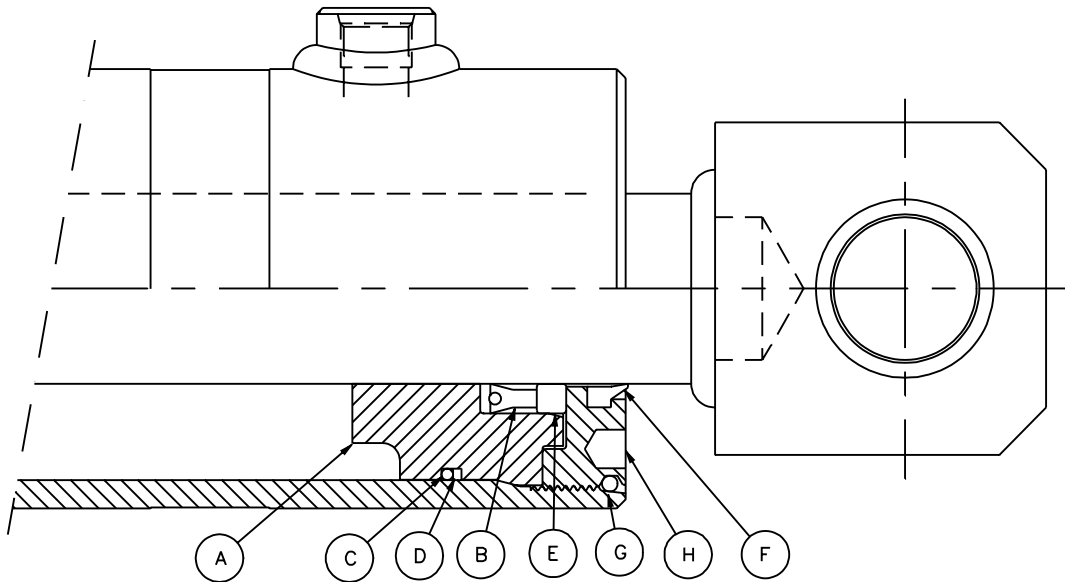
Note: Be sure to install the bearing joints at 180° from each other as shown in Figure 3.

6. Re-install the clamp cylinder on the machine.
7. Reconnect the hydraulic lines to the clamp cylinder.
8. Start the engine and pressurize the clamp cylinder circuit.
9. Check the clamp cylinder for hydraulic leaks.

SERVICE GROUP INSTALLATION

1003775-1

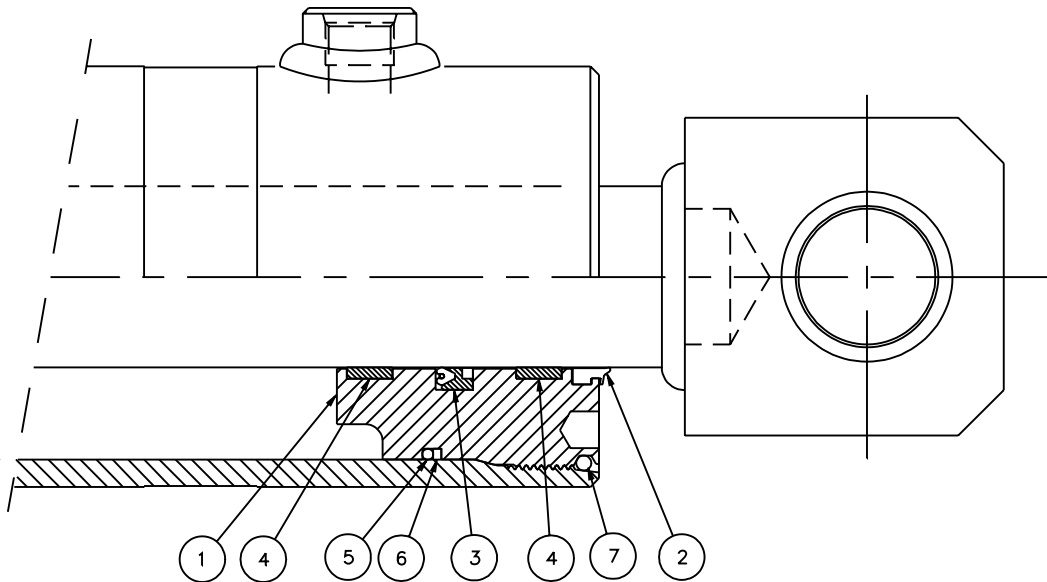
**FIGURE 1
CLAMP CYLINDER WITH EXISTING PARTS TO BE REMOVED**



A	170230-1	Cylinder Head	1	E	170231-1	Non-Extrusion Ring . .	1
B	250444-1	Rod Seal	1	F	250443-1	Rod Wiper	1
C	150395-31	O-Ring	1	G	150012-20	O-Ring	1
D	155328-1	Back-Up Ring	1	H	170232-1	Retainer Ring	1

1003775-2

**FIGURE 2
CLAMP CYLINDER WITH NEW PARTS TO BE INSTALLED**

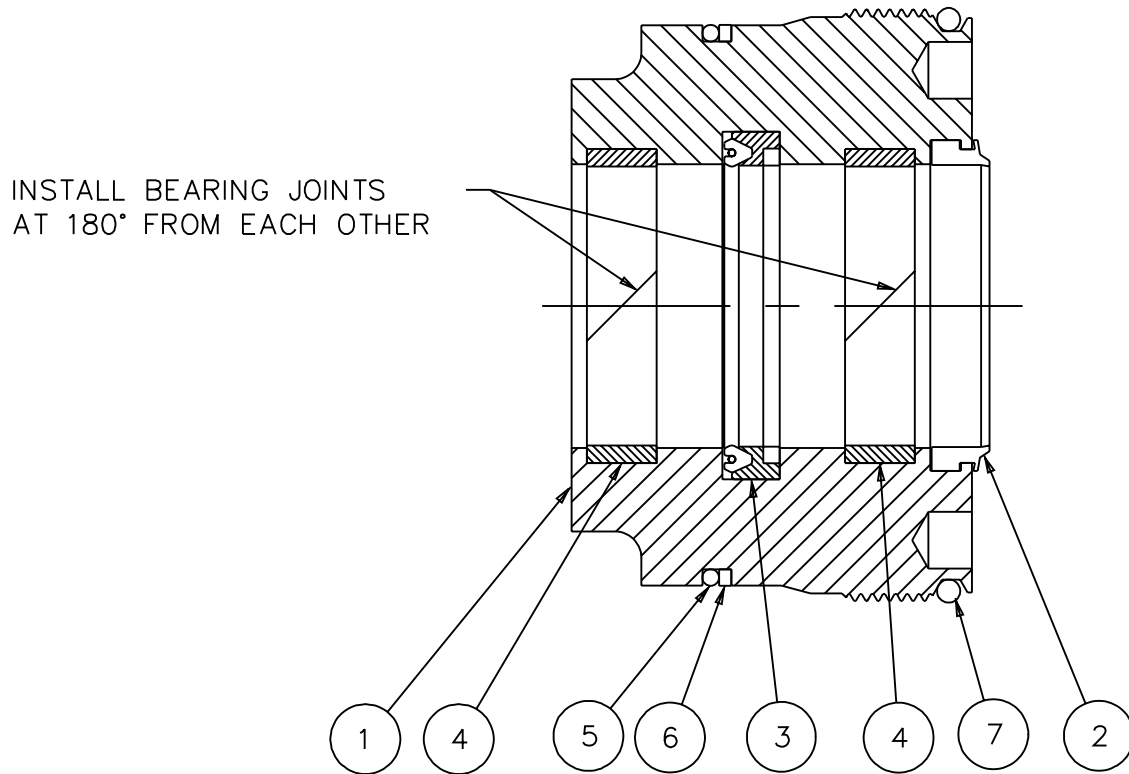


1	2004240	Cylinder Head	1	5	150395-31	O-Ring	1
2	2004243	Rod Wiper	1	6	155328-1	Backing Ring	1
3	2004244	Rod Seal	1	7	150012-20	O-Ring	1
4	2004245	Rod Bearing	2				

SERVICE GROUP INSTALLATION

1004382-1

**FIGURE 3
NEW CYLINDER HEAD ASSEMBLY**



SERVICE GROUP PARTS LIST

ITEM	PART NO	DESCRIPTION	QTY
	2004976	CYLINDER HEAD ASSEMBLY	1
1	2004240	Cylinder Head	1
2	2004243	Rod Wiper	1
3	2004244	Rod Seal	1
4	2004245	Rod Bearing	2
5	150395-31	O-Ring	1
6	155328-1	Backing Ring	1
7	150012-20	O-Ring	1

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